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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,391	02/21/2007	Andrew J. Feitz	NSI-01 3880	
2387 OLSON & HII	7590 10/18/2007 FRI ITD		EXAMINER	
20 NORTH WACKER DRIVE			EL ARINI, ZEINAB	
36TH FLOOR CHICAGO, IL 60606			ART UNIT	PAPER NUMBER
			1792	
			MAIL DATE	DELIVERY MODE
•			10/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/581,391	FEITZ ET AL.			
Office Action Summary	Examiner	Art Unit			
	Zeinab E. EL-Arini	1792			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e. cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status		•			
Responsive to communication(s) filed on 2a) ☐ This action is FINAL2b) ☑ This 3) ☐ Since this application is in condition for allowated closed in accordance with the practice under the condition is in condition.	s action is non-final. ance except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examination of the drawing(s) filed on is/are: a) accompany and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination of the correct of	er. cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is objected to by the	e 37 CFR 1.85(a). njected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	Adminor. Note the attached office	7701017 07 101111 1 7 102.			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/2/06.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate			

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The same

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claims 1-20 are indefinite, because specific steps of treating the surface have not been recited.
 - Claims 1, 9-10, and 15 are indefinite in the recitation of "capable of".

It has been held that the recitation that an element is "capable of" performing a function is not a positive limitation but only requires the ability to so perform. It does not constitute a limitation in any patentable sense. *In re Hutchison*, 69 USPQ 138.

Claims 1 and 15, are indefinite and confusing, because it is not clear if the surface or the contamination being oxidized by hydroxyl radicals.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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6. Claims 1-4, 6-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Nikolaidis et al. (6,387,276).

Nikolaidis et al. disclose a method for treating a surface to chemically alter contamination on the surface. The method comprises applying particles of zero valent metal capable of reacting with oxygen and water to form hydroxyl radicals, and exposing the particles to oxygen and water to form hydroxyl radicals at or near the surface. See col. 4, lines 36-67.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Mallouk et al. (US 2003/0134409).

Mallouk et al. disclose a method for treating a surface as claimed. See paragraph 20, 24, example 3, claims21-23, 32, 41, 45-46, 50, 60-61, and 64. The oxidant taught by Mallouk et al. read on the oxygen and the air as claimed. Re. the particle size, see paragraph 30.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zeinab E. EL-Arini whose telephone number is (571) 272-1301. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Zeinab E. EL-Arini Primary Examiner Art Unit 1792

ZEE 10/9/07